

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of **Geib**

Application No. 10/693,195

Attorney Docket No. 0241-P03282US0

Filed: October 24, 2003

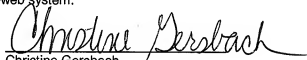
For: MOUNTING DEVICE

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being filed on date identified below with the United States Patent and Trademark Office via the EFS-web system.

May 4, 2007

Date of Certificate


Christine Gersbach

**PETITION TO WITHDRAW HOLDING OF
ABANDONMENT UNDER 37 C.F.R. § 1.181 (a)**

Applicant received a Notice of Abandonment dated April 10, 2007 indicating that the application was abandoned for failure to file a timely and proper reply to the Official Action dated October 3, 2006. Applicant submits, however, a response was timely filed so that there was in fact no abandonment. The following facts are submitted in support of the Applicant's position.

On April 3, 2007, a response to the Official Action was filed with the U.S. Patent and Trademark Office. A copy of the date stamped postcard that was returned to Applicant's undersigned attorney as evidence of receipt by the USPTO is enclosed as Exhibit A. Applicant also submits as Exhibit B, a copy of the response showing the Certificate of Mailing evidencing the fact that the response was timely filed.

We are also attaching a printout of the Image File Wrapper (IFW) from PAIR as Exhibit C, evidencing the USPTO having received the response mailed April 3, 2007 and entering the response into the PAIR database.

The MPEP at § 711.03(c) clearly indicates that, upon a sufficient showing of evidence, a holding of abandonment should be withdrawn. Applicant hereby requests the withdrawal of the abandonment of the above-identified patent application. Inasmuch as the reason for abandonment was an error by the USPTO, Applicant submits that no fee should be required. Applicant respectfully requests that the Examiner promptly consider the response filed April 3, 2007, which is also enclosed with this Petition.

Respectfully submitted,

DANN, DORFMAN, HERRELL & SKILLMAN
A Professional Corporation
Attorneys for Applicant(s)

By 
Stephen H. Eland
PTO Registration No. 41,010

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EXHIBIT A

The following papers have been received

In re Application of
GEIB

Appl. No.10/693,195

Attorney Docket No.
0241-P03282US0

For: MOUNTING DEVICE

Response
\$1.8 Cert. Of Mailing
\$1.136 Pet. for Extension
Fee Transmittal (Dupl.)
\$1,120 Check
Auth. to charge dep. acct.



Patent and Trademark Office is respectfully requested to place its STAMP on this POSTAL CARD and place it in the outgoing mail.

Mailed: 4/3/07

By: Stephen H. Eland

EXHIBIT B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of **Geib**

Application No. 10/693,195

Attorney Docket No. 0241-P03282US0

Filed: October 24, 2003

For: Mounting Device

Examiner: Garcia, Ernesto

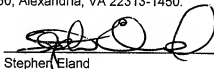
Group Art Unit: 3679

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this Response and accompanying papers are being deposited on April 3, 2007 with the United States Postal Service as first-class mail in an envelope properly addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

April 3, 2007

Date of Certificate



Stephen Eland

RESPONSE TO ACTION

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A device for coaxially mounting a machine element having a bore upon a shaft, comprising:

- a nut having a threaded portion and a first connector having a forward surface and a rearward surface spaced apart from the forward surface, wherein the rearward surface is spaced apart from the threaded portion;

- an outer sleeve for engaging the machine element, comprising:

- a tapered external surface;

- a tapered internal surface wherein the internal surface has a minor diameter adjacent a forward end of the outer sleeve and a major diameter spaced rearwardly from the forward end;

- at least one axial slot extending longitudinally along the outer sleeve to permit expansion of the external surface of the outer sleeve;

- a second connector connected with the first connector to connect the outer sleeve with the nut, wherein the second connector comprises a forward surface cooperable with the forward surface of the first connector to impede substantial forward ~~and rearward~~ axial displacement of the outer sleeve relative to the nut while allowing rotation of the outer sleeve relative to the inner sleeve, and wherein the second connector comprises a rearward surface cooperable with the rearward surface of the first connector to impede rearward axial displacement of the outer sleeve relative to the nut;

- an inner sleeve for encircling the shaft, comprising:

- a tapered external surface corresponding in angle of taper to the tapered internal surface of the outer sleeve and having a minor diameter adjacent a forward end of the inner sleeve and a major diameter spaced rearwardly from the forward end of the inner sleeve;

- an interior bore cooperable with the shaft; and

a threaded portion remote from the forward end of the inner sleeve and cooperable with the threaded portion of the nut;
wherein upon rotation of rotating the nut in a first direction the rearward surface of the first connector drives the rearward surface of the second connector rearwardly relative to the inner sleeve ~~displaces~~ the inner sleeve forwardly relative to the nut ~~which, causing relative displacement between the inner and outer sleeves, displacing~~ ~~displaces~~ the major diameter of the external surface of the inner sleeve toward the minor diameter of the outer sleeve internal surface, thereby causing the inner sleeve to contract against the shaft and the outer sleeve to expand against the bore of the machine element, and wherein upon rotation of rotating the nut in a second direction the forward surface of the first connector drives the forward surface of the second connector forwardly relative to the inner sleeve ~~displaces the inner sleeve rearwardly relative to the nut~~, thereby loosening the inner sleeve from the shaft and the outer sleeve from the bore of the machine element.

2. (Original) The device of claim 1 wherein the outer sleeve comprises a plurality of axial slots extending longitudinally along the outer sleeve, wherein the configuration and orientation of the slots provide sufficient radial flexibility to allow the outer sleeve to deflect to fit over the first connector of the nut.
3. (Original) The device of claim 2 wherein the first connector comprises a circumferential groove and the second connector comprises a flange extending radially inwardly, wherein said outer sleeve is sufficiently resilient such that the outer sleeve contracts after flexing to fit the flange into the groove.
4. (Original) The device of claim 1 wherein the external surface of the outer sleeve has a minor diameter and the nut has an external diameter that is greater than

the minor diameter of the outer sleeve external diameter.

5. (Original) The device of claim 1 wherein the external surface of the outer sleeve has a major diameter and the outer sleeve comprises an external flange extending radially outwardly adjacent the major diameter of the outer sleeve external surface.
6. (Original) The device of claim 1 wherein one end of the inner sleeve is continuous about the circumference.
7. (Original) The device of claim 1 wherein the outer sleeve is a one-piece sleeve comprising a plurality of slots forming a plurality of sections connected by a web that allows the outer sleeve to resiliently deflect radially.
8. (Original) The device of claim 1 wherein the outer sleeve comprises a stop engageable with the machine element to impede relative axial displacement between the outer sleeve and the machine element.
9. (Currently Amended) A device for coaxially mounting a machine element having a bore upon a shaft comprising:
 - a one-piece inner sleeve for encircling the shaft, having a forward and rearward end, wherein the inner sleeve comprises:
 - a threaded portion adjacent the rearward end;
 - a frustoconical external surface having a major diameter adjacent the threaded portion and a minor diameter spaced from the major diameter toward the forward end of the inner sleeve;
 - an internal bore configured to cooperate with the shaft;
 - a nut having threads at one end and an engagement element circumferential flange at the distal spaced from the one end;

an outer sleeve operable to engage the machine element, having a forward end and a rearward end, wherein the outer sleeve comprises:

a frustoconical internal surface corresponding in angle of taper to the frustoconical external surface of the inner sleeve, and having a major diameter adjacent the rearward end and a minor diameter adjacent the forward end;

an external surface; and

a circumferential interlock cooperating with the engagement element engaging the flange of the nut to prevent substantial forward and rearward axial displacement of the outer sleeve relative to the nut;

wherein upon rotation of the nut in a first direction, a first portion of the engagement element engages the circumferential interlock of the outer sleeve the threaded portion of the nut engage with the threads of the inner sleeve displacing the inner sleeve in one direction relative to the nut and the outer sleeve thereby displacing the major diameter of the inner sleeve external surface toward the minor diameter of the outer sleeve internal surface, the displacements causing the internal bore of the inner sleeve to contract against the shaft and the external surface of the outer sleeve to expand against the bore of the machine element, and wherein upon rotation of the nut in a second direction opposite the first direction, a second portion of the engagement element engages the circumferential interlock of the outer sleeve thereby displacing the minor diameter of the outer sleeve away from the major diameter of the inner sleeve, such displacements being operable to loosen the inner sleeve from the shaft and the outer sleeve from the bore of the machine element.

10. (Original) The device of claim 9 wherein the flange extends radially outwardly and the nut further comprises an annular groove adjacent the flange, wherein the outer sleeve is a one piece sleeve having sufficient resilience such that the outer

sleeve contracts after flexing to fit over the flange thereby displacing the circumferential interlock into engagement with the circumferential groove.

11. (Presently Presented) The device of claim 9 wherein the frustoconical external surface of the outer sleeve has a minor diameter adjacent the forward end of the outer sleeve and a major diameter spaced rearwardly from the minor diameter.
12. (Original) The device of claim 11 wherein the nut has an external diameter that is greater than the major diameter of the outer sleeve external surface.
13. (Original) The device of claim 9 wherein the outer sleeve comprises a stop engageable with the machine element to impede relative axial displacement between the outer sleeve and the machine element.
14. (Original) The device of claim 9 wherein one end of the inner sleeve is continuous about the circumference.

15-20 (Canceled)

21. (Previously Presented) The device of claim 9 wherein rotating the nut in a second direction displaces the inner sleeve rearwardly relative to the nut, thereby loosening the inner sleeve from the shaft and the outer sleeve from the bore of the machine element.
22. (Presently Presented) The device of claim 9 wherein the threaded portion of the nut and the threaded portion of the inner sleeve are cooperating left hand threads.
23. (Presently Presented) The device of claim 1 wherein the threaded portion of the

nut and the threaded portion of the inner sleeve are cooperating left hand threads.

24. (Currently Amended) A device for coaxially mounting a machine element having a bore upon a shaft comprising:
- a nut having a ~~left handedly~~ threaded portion and a first connector having a first engagement surface and a second engagement surface;
 - an outer sleeve for engaging the machine element, comprising:
 - a tapered internal surface;
 - a second connector connected with the first connector to connect the outer sleeve with the nut to impede substantial forward and rearward axial displacement of the outer sleeve relative to the nut while allowing rotation of the outer sleeve relative to the inner sleeve, wherein the second connector has a first engagement surface and a second engagement surface;
 - an inner sleeve for encircling the shaft, comprising:
 - a tapered external surface corresponding in angle of taper to the tapered internal surface of the outer sleeve
 - an interior bore cooperable with the shaft; and
 - a ~~left handedly~~ threaded portion remote from the forward end of the inner sleeve and cooperable with the threaded portion of the nut;
- wherein rotating the nut in a first direction displaces the first engagement surface of the first connector engages the first engagement surface of the second connector to displace the outer sleeve rearwardly relative to the machine element, inner sleeve forwardly relative to the nut, thereby causing the inner sleeve to contract against the shaft and the outer sleeve to expand against the bore of the machine element; and wherein rotating the nut in a second direction opposite the first direction displaces the second engagement surface of the first connector into engagement with the

second engagement surface of the second connector to displace the outer sleeve forwardly relative to the machine element, and wherein rotating the nut in a second direction displaces the inner sleeve rearwardly relative to the nut thereby loosening the inner sleeve from the shaft and the outer sleeve from the bore of the machine element.

25. (Presently Presented) The device of claim 24 wherein the internal surface of the outer sleeve has a minor diameter adjacent a forward end of the outer sleeve and a major diameter spaced rearwardly from the forward end, and the internal surface of the inner sleeve has a minor diameter adjacent a forward end of the inner sleeve and a major diameter spaced rearwardly from the forward end of the inner sleeve.
26. (Presently Presented) The device of claim 25 wherein rotating the nut in a first direction displaces the major diameter of the external surface of the inner sleeve toward the minor diameter of the outer sleeve internal surface.
27. (Presently Presented) The device of claim 24 wherein the first connector is one of a flange and a mating groove configured to retain the flange within the groove, and the second connector is the other of the flange and the mating groove.
28. (Presently Presented) The device of claim 24 wherein the outer sleeve comprises a plurality of axial slots extending longitudinally along the outer sleeve, wherein the configuration and orientation of the slots provide sufficient radial flexibility to allow the outer sleeve to deflect to fit over the first connector of the nut.
29. (Presently Presented) The device of claim 24 wherein the external surface of the outer sleeve has a major diameter and the outer sleeve comprises an external

flange extending radially outwardly adjacent the major diameter of the outer sleeve external surface.

30. (Presently Presented) The device of claim 24 wherein the outer sleeve comprises a stop engageable with the machine element to impede relative axial displacement between the outer sleeve and the machine element.
31. (New) The device of claim 24 wherein the outer surface of the inner sleeve directly engages the internal surface of the outer sleeve.
32. (New) The device of claim 5 wherein the device is configured such that the flange on the outer sleeve adjacent the major diameter is cooperable with the machine element to position the sleeve relative to the mounting device.

REMARKS

In an Official Action dated October 3, 2006 , the Examiner rejected the pending claims as anticipated or obvious over a number of references. Applicants request that the Examiner reconsider the rejection in light of the following discussion.

As previously discussed with the Examiner, Muellenberg 5,067,847 discloses a device that operates differently than the device disclosed in the application. Although Applicant believes that the claims as previously presented distinguish Applicant's device from the devices in the cited references, the claims have been further amended to further recite some of the distinguishing features.

For instance, as discussed with the Examiner, the device in Mullenberg does not operate such that turning the nut in a first direction causes the minor diameter of the outer sleeve to be displaced toward the major diameter of the inner sleeve to tighten the device and such that turning the nut in a second direction causes the minor diameter of the outer sleeve to be displaced away from the major diameter of the inner sleeve to loosen the device.

Accordingly, in light of the amendments to the claims, Applicant requests that the Examiner reconsider the rejection of claims 1 and 9 as anticipated by or obvious in light of Muellenberg.

Further, claim 24 has been amended to further recite the differences between Applicant's device and the device in Soussloff 4,600,334. For instance, Soussloss incorporates a device having an outer sleeve, and intermediate sleeve and an internal sleeve. Claim 24 has been amended to recite that the outer sleeve engages the machine element and the outer sleeve directly engages the inner sleeve. Claim 24 further recites that rotating the nut in a first direction causes the nut to displace the outer sleeve rearwardly relative to the machine element to tighten the device, and


rotating the nut in a second direction causes the nut to displace the outer sleeve forwardly relative to the machine element to loosen the device. In contrast, the device in Soussloff does not have a nut that engages the outer sleeve; rather the nut engages the intermediate sleeve, which does not engage the machine element.

In light of the foregoing, Applicant believes that this application is in form for allowance. The Examiner is encouraged to contact Applicant's undersigned attorney if the Examiner believes that issues remain regarding the allowability of this application.

Respectfully submitted,

DANN, DORFMAN, HERRELL & SKILLMAN
A Professional Corporation
Attorneys for Applicant(s)

By



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FEE TRANSMITTAL

Complete if known

Application Number: 10/693,195

Filing Date: October 24, 2003

First Named Inventor: Geib

Group Art Unit: 3679

Examiner Name: Garcia, Ernesto

Total Amt. of Payment: (1)+(2)+(3)= **\$1,120**

Attorney Docket Number: 0241-P03282USO

METHOD OF PAYMENT (check one)

1. The Commissioner is hereby authorized to:

☐ Charge indicated fees

☒ Charge additional fees

☒ Credit overpayments

to the account of DANN, DORFMAN, HERRELL & SKILLMAN

Deposit Account Number 04-1406

2. Payment enclosed:

Check in the amount of **\$1,120**

FEE CALCULATION

1. FILING FEE

Fee

Fee Description

Utility filing fee

Design filing fee

Plant filing fee

Reissue filing fee

SUBTOTAL (1) **\$0**

FEE CALCULATION (continued)

ADDITIONAL FEES

Fee Description

Fee Paid

Surcharge-late filing fee or oath

Surcharge - late provisional filing fee or cover sheet

Extension for response within third month

1020

Notice of Appeal

Filing a brief in support of an appeal

Request for oral hearing

Petition to revive unavoidably abandoned appl.

Petition to revive unintentionally abandoned appl.

Issue fee

Petitions to the Commissioner

Petitions related to provisional applications

Submission of Information Disclosure Stmt.

Recording each patent assignment per property

Other fee (specify)

SUBTOTAL (3) **\$1,020**

2. Claims

Paid

Extra

Fee

Total Claims

26

-24

= 2

x 50

= 100

Independent Claims

3

-3

= 0

x 200

= 0

Multiple Dependent

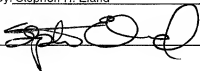
(First presentation)

SUBTOTAL (2) **\$100**

Submitted By: Stephen H. Eland

Reg. Number 41,010

Signature



Date April 3, 2007

Deposit Account User ID

04-1406

EXHIBIT C

This application is officially maintained in electronic form. To View: Click the desired Document Description. To Download and Print: Check the desired document(s) and click Start Download.

Available Documents

	Document Description	Document Category	Page Count
04-10-2007	Abandonment	PROSECUTION	2
04-09-2007	Claims	PROSECUTION	8
04-09-2007	Applicant Arguments/Remarks Made in an Amendment	PROSECUTION	3
04-09-2007	Amendment - After Non-Final Rejection	PROSECUTION	1
11-06-2006	Examiner Interview Summary Record (PTOL - 413)	PROSECUTION	5
10-03-2006	Search information including classification, databases and other search related notes	PROSECUTION	1
10-03-2006	Non-Final Rejection	PROSECUTION	17
10-03-2006	List of references cited by examiner	PROSECUTION	1
10-03-2006	Index of Claims	PROSECUTION	1
10-03-2006	Foreign Reference	PROSECUTION	21
09-11-2006	Request for Continued Examination (RCE)	PROSECUTION	1
09-11-2006	Fee Worksheet (PTO-06)	PROSECUTION	2
09-11-2006	Fee Worksheet (PTO-06)	PROSECUTION	1
09-11-2006	Extension of Time	PROSECUTION	1
09-11-2006	Claims	PROSECUTION	7
09-11-2006	Applicant Arguments/Remarks Made in an Amendment	PROSECUTION	4
09-11-2006	Amendment Submitted/Entered with Filing of CPA/RCE	PROSECUTION	1
03-02-2006	Search information including classification, databases and other search related notes	PROSECUTION	1
03-02-2006	Index of Claims	PROSECUTION	1
03-02-2006	Final Rejection	PROSECUTION	21
12-09-2005	Fee Worksheet (PTO-06)	PROSECUTION	1
12-09-2005	Claims	PROSECUTION	6
12-09-2005	Applicant Arguments/Remarks Made in an Amendment	PROSECUTION	1
12-09-2005	Amendment - After Non-Final Rejection	PROSECUTION	1
11-25-2005	Mail returned to USPTO as undelivered	PROSECUTION	5
11-21-2005	Notice to the applicant regarding a Non-Compliant Amendment	PROSECUTION	3
11-21-2005	Applicant Arguments/Remarks Made in an Amendment	PROSECUTION	1
11-14-2005	Examiner Interview Summary Record (PTOL - 413)	PROSECUTION	6
10-31-2005	Fee Worksheet (PTO-06)	PROSECUTION	2
10-31-2005	Claims	PROSECUTION	6
10-31-2005	Applicant Arguments/Remarks Made in an Amendment	PROSECUTION	1
10-31-2005	Amendment - After Non-Final Rejection	PROSECUTION	1
10-21-2005	Requirement for Restriction/Election	PROSECUTION	5
07-28-2005	Fee Worksheet (PTO-06)	PROSECUTION	1
07-28-2005	Claims	PROSECUTION	6
07-28-2005	Claims	PROSECUTION	6
07-28-2005	Authorization for Extension of Time all replies	PROSECUTION	2
07-28-2005	Applicant Arguments/Remarks Made in an Amendment	PROSECUTION	5
07-28-2005	Amendment - After Non-Final Rejection	PROSECUTION	2
03-18-2005	Oath or Declaration filed	PROSECUTION	2
03-18-2005	Miscellaneous Incoming Letter	PROSECUTION	1
02-23-2005	Search information including classification, databases and other search related notes	PROSECUTION	1
02-23-2005	Non-Final Rejection	PROSECUTION	15
02-23-2005	List of references cited by examiner	PRIOR ART	1
02-23-2005	List of References cited by applicant and considered by examiner	PRIOR ART	1
02-23-2005	Index of Claims	PROSECUTION	1
02-23-2005	Foreign Reference	PRIOR ART	14
02-23-2005	Foreign Reference	PRIOR ART	7
02-23-2005	Bibliographic Data Sheet	PROSECUTION	1
03-10-2004	Information Disclosure Statement (IDS) Filed	PROSECUTION	3
03-10-2004	Foreign Reference	PRIOR ART	9

01-28-2004	Pre-Exam Formalities Notice	PROSECUTION	1
10-24-2003	Transmittal of New Application	PROSECUTION	2
10-24-2003	Specification	PROSECUTION	13
10-24-2003	Oath or Declaration filed	PROSECUTION	1
10-24-2003	Fee Worksheet (PTO-06)	PROSECUTION	1
10-24-2003	Fee Worksheet (PTO-06)	PROSECUTION	1
10-24-2003	Drawings	PROSECUTION	4
10-24-2003	Claims	PROSECUTION	5
10-24-2003	Abstract	PROSECUTION	1

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